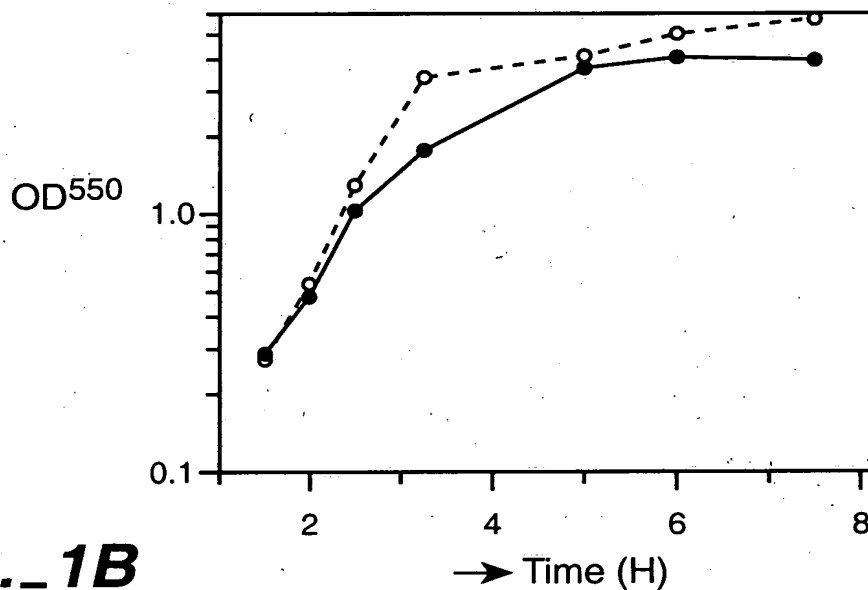
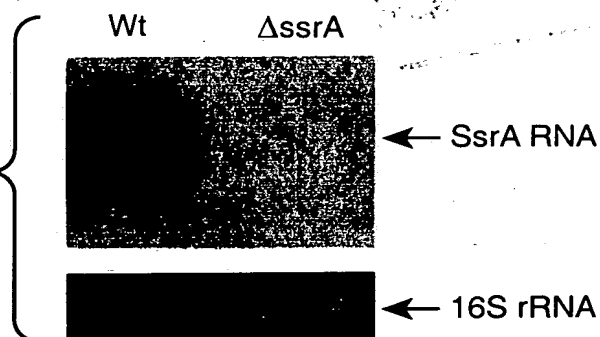


#5

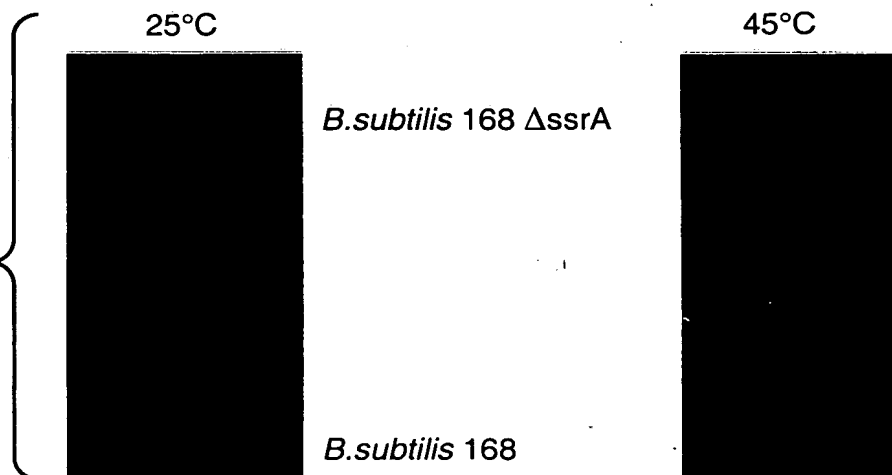
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**FIG.\_1A**



**FIG.\_1B**

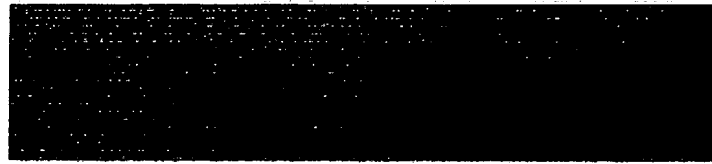
**FIG.\_1C**



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	1	2	3	4	5	6		7	8	9
pLATIL3	+	-	-	+	-	-		+	-	-
pLATIL3TERM	-	+	+	-	+	+		-	+	+
SsrA	+	+	-	+	+	-		+	+	-

M



Early  
Exponential  
Growth  
Phase

Late  
Exponential  
Growth  
Phase

Stationary  
Phase

**FIG.\_2**

hIL-3 + Fused  
at C-Terminus:

- AAtag DDtag ECtag



1

2

3

4

**FIG.\_3A**

Time (Min)

0

5

10

30

60



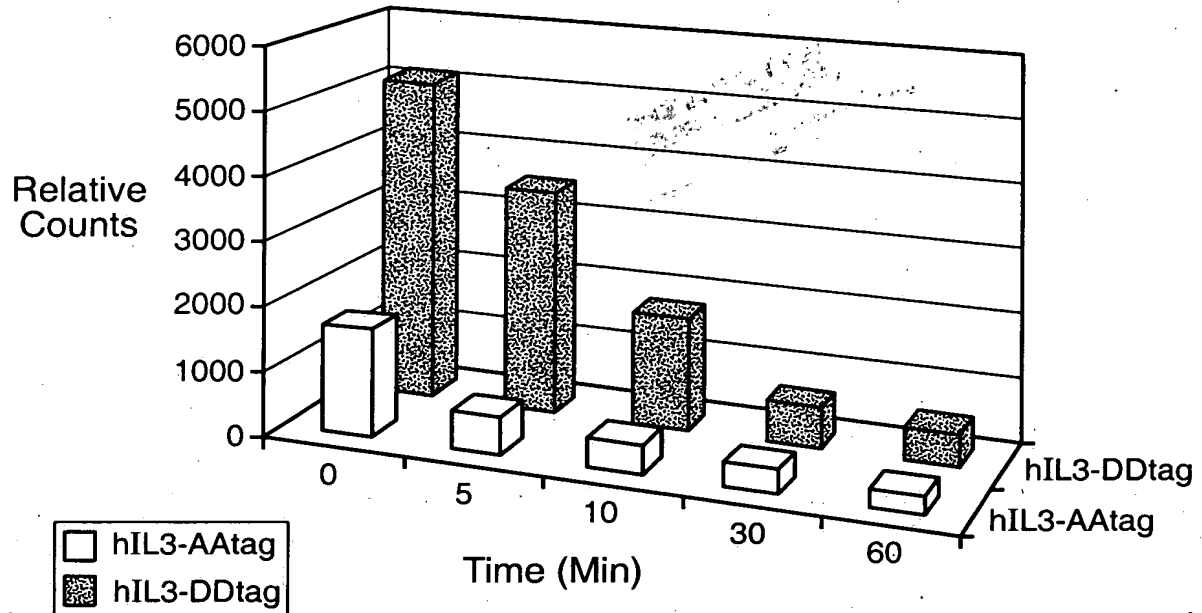
hIL3-AAtag



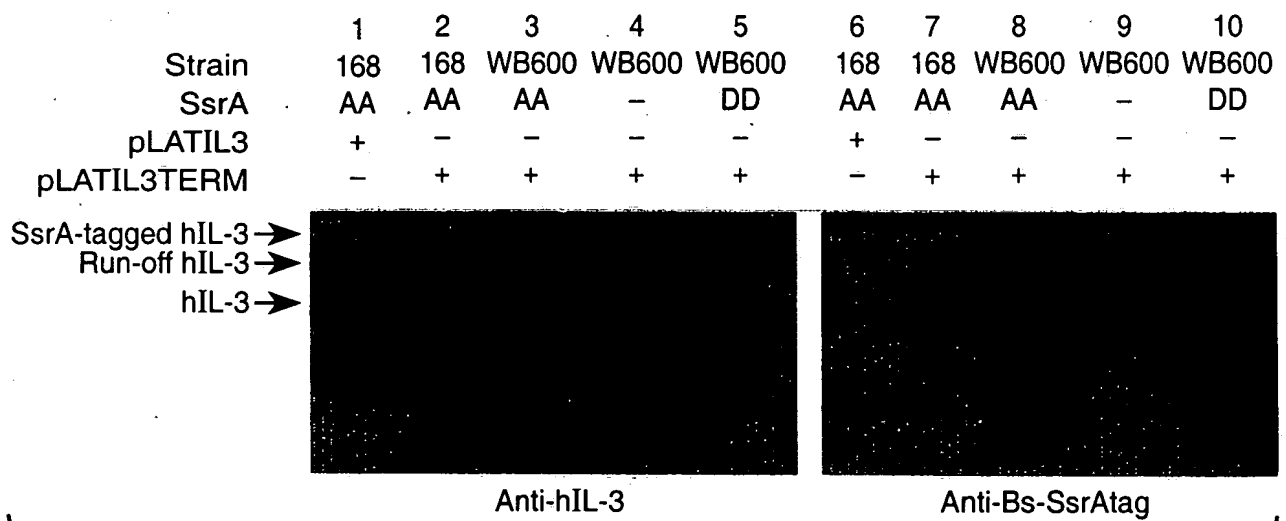
hIL3-DDtag

**FIG.\_3B**

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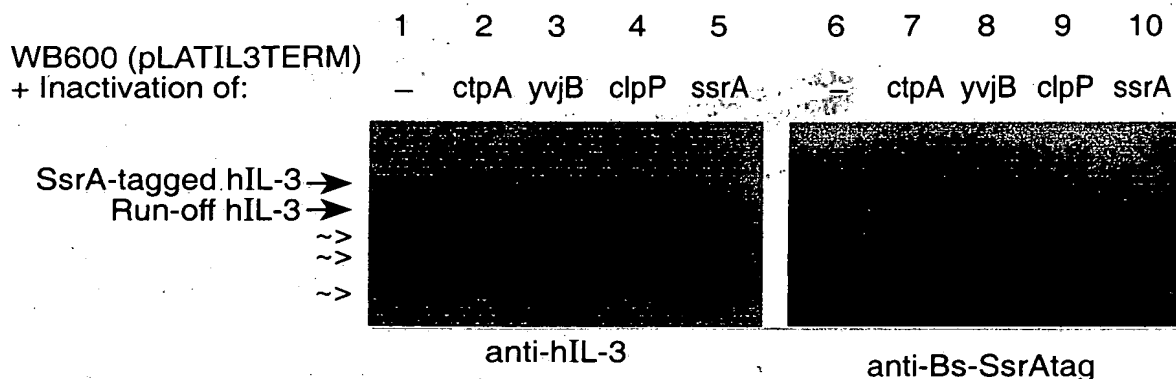


**FIG. 3C**

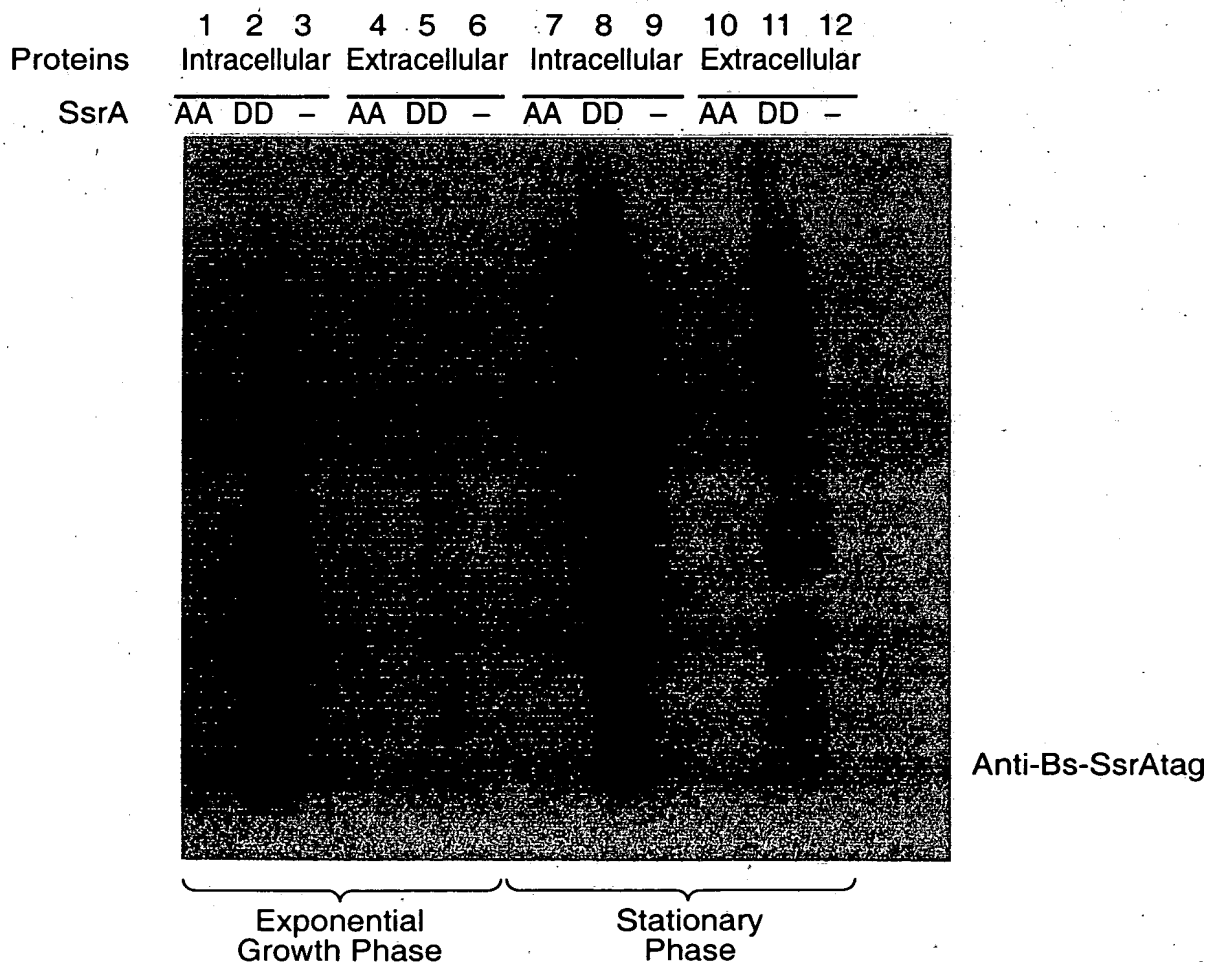


**FIG. 4**

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**FIG.\_5**



**FIG.\_6**

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**IL-3 amino acid sequence (Native sequence associated with its native signal sequence)**

MSRLPVLLLL QLLVRPGLQA PMTQTTPLKT SWVNCSNMID  
EIITHLKQPP  
LPLLDFFNNLN GEDQDILMEN NLRRPNLEAF NRAVKSLQNA  
SAIESILKNL  
LPCLPLATAA PTRHPIHIKD GDWNEFRRKL TFYLKTLNA  
QAQQTLSLA IF

**IL-3 as encoded by plasmid pLATIL3**

MKQOKRLYAR LLTLLFALIF LLPHSSASAA PMTQTTPLKT SWVNCSNMID  
EIITHLKQPP LPLLDFFNNLN GEDQDILMEN NLRRPNLEAF NRAVKSLQNA  
SAIESILKNL LPCLPLATAA PTRHPIHIKD GDWNEFRRKL TFYLKTLNA  
QAQQTLS

**IL-3 amino acid sequence (Substituted tag charged C-terminus)**

MKQOKRLYAR LLTLLFALIF LLPHSSASAA PMTQTTPLKT SWVNCSNMID  
EIITHLKQPP LPLLDFFNNLN GEDQDILMEN NLRRPNLEAF NRAVKSLQNA  
SAIESILKNL LPCLPLATAA PTRHPIHIKD GDWNEFRRKL TFYLKTLNA  
QAQQTDD

**IL-3 amino acid sequence (Tagged<sup>14</sup>)**

MKQOKRLYAR LLTLLFALIF LLPHSSASAA PMTQTTPLKT SWVNCSNMID  
EIITHLKQPP LPLLDFFNNLN GEDQDILMEN NLRRPNLEAF NRAVKSLQNA  
SAIESILKNL LPCLPLATAA PTRHPIHIKD GDWNEFRRKL TFYLKTLNA  
QAQQTLSAG KTNSEFNQVA LDD

**FIG. 7**